

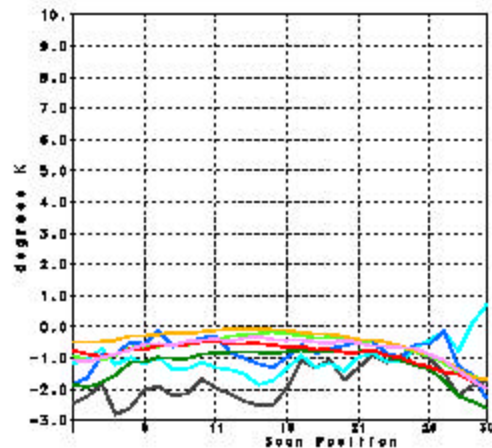
AMSU Biases vs. ECMWF Forecast

- Analyzed the nine focus granules from July 20
- Predicted MW radiances were calculated from closest ECMWF point in space and time (1/2 degree by 1/2 degree by 3 hour grid)
- Filtered cases attempting to remove land and precipitation using only these cases:
 - Land fraction equal to zero
 - AMSU channel 2 less than 200 degrees and within 5 degrees of observation
 - AIRS observations at 930 cm-1 warmer than 250 degrees
- Biases and standard deviations of MW observations minus ECMWF calculated are shown
- Plan to use these biases to tune MW radiances and attempt retrievals

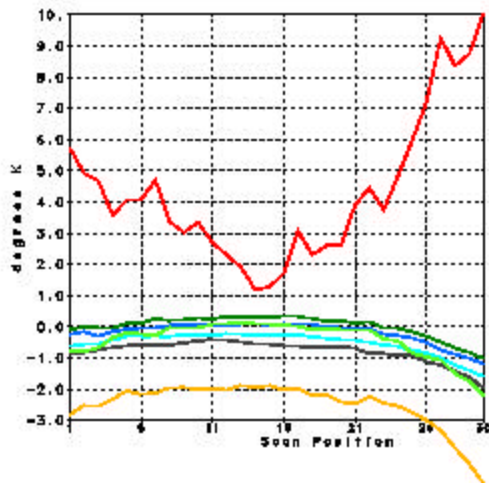
Biases of Microwave Channels vs. ECMWF

9 Focus Granules on July 20, 2002

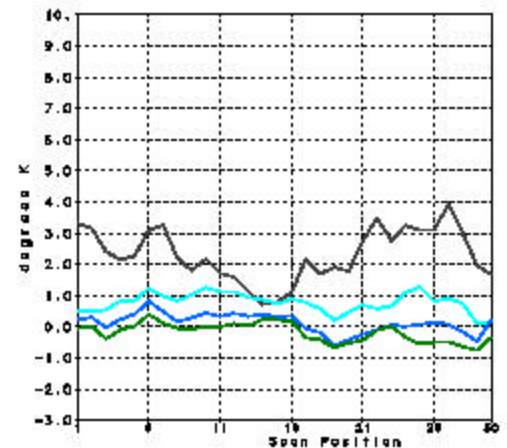
Biases of AMSU Channels 1 through 8



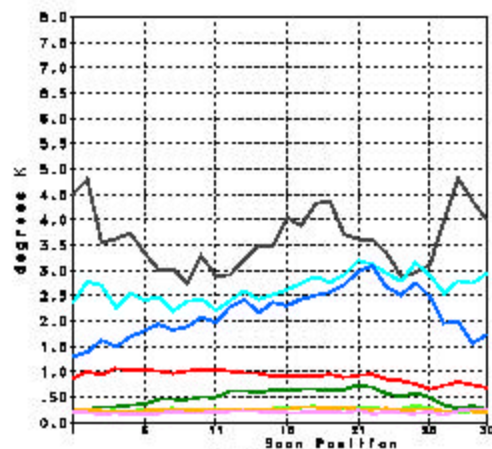
Biases of AMSU Channels 9 through 15



Biases of HSB Channels 2 through 5

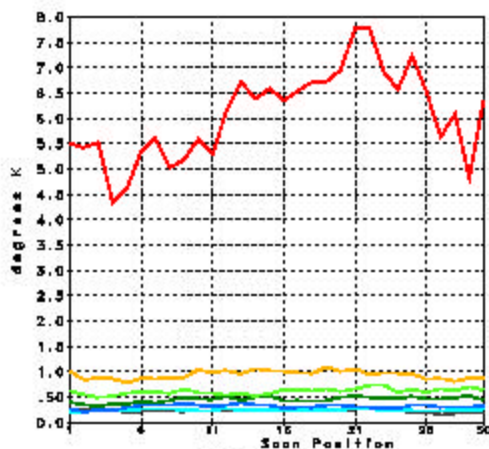


STD of AMSU Channels 1 through 8



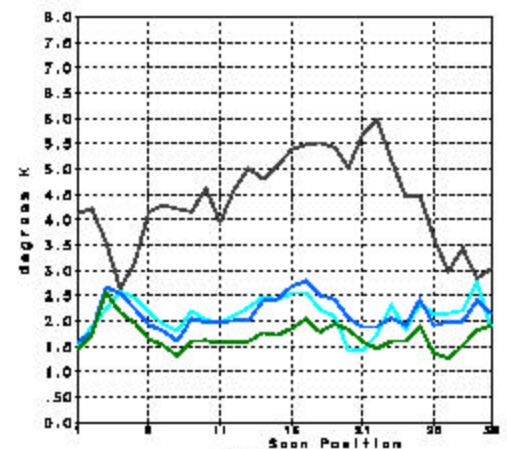
— AMSU Channel 1
— AMSU Channel 2
— AMSU Channel 3
— AMSU Channel 4
— AMSU Channel 5
— AMSU Channel 6
— AMSU Channel 7
— AMSU Channel 8

STD of AMSU Channels 9 through 15



— AMSU Channel 9
— AMSU Channel 10
— AMSU Channel 11
— AMSU Channel 12
— AMSU Channel 13
— AMSU Channel 14
— AMSU Channel 15

STD of HSB Channels 2 through 5



— HSB Channel 2
— HSB Channel 3
— HSB Channel 4
— HSB Channel 5